

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	09/21/2018 09/21/2018	Luz Dial

LM Start		Rating **	A	Issue No.	20
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_NA0005_01_s _ 2013_20				
Comment Code					
Inspector Comment					
City of Sacramento has copies of the levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	22
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_NA0005_01_s _ 2013_22				
Comment Code					
Inspector Comment					
City of Sacramento maintains a stockpile of Flood Fight response material.					

No Photos

LM Start		Rating **	A	Issue No.	23
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_NA0005_01_s _ 2013_23				
Comment Code					
Inspector Comment					
City of Sacramento has a written response plan and has taken flood fight methods training.					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

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Unit No. 01 Sacramento River	Left	3.67	09/21/2018 09/21/2018	Luz Dial

LM Start	0.08	Rating **	C	Issue No.	79
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.589690 °	38.589690 °
				-121.505106 °	-121.505106 °
DWR ID	DWR_NA0005_01_s_2017_79				
Comment Code					
TR : Tree or limb					
Inspector Comment					
LMA removed tree limbs on waterside slope after the inspection.					

No Photos

LM Start	0.84	Rating **	M	Issue No.	83
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.578955 °	38.578955 °
				-121.507703 °	-121.507703 °
DWR ID	DWR_NA0005_01_f_2018_83				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Log next to floodwall should be removed.					

Photo 1 of 1 : FA_2018_NA0005_251_83_20180927_00113.jpg



Tree debris against floodwall. Fall 2018

LM Start	1.31	Rating **	M	Issue No.	74
LM End	1.31	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.573096 °	38.573096 °
				-121.511813 °	-121.511813 °
DWR ID	DWR_NA0005_01_f_2018_74				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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LM Start	1.31	Rating **	M	Issue No.	72
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.573169°	38.572277°
				-121.511998°	-121.513063°
DWR ID	DWR_NA0005_01_f_2018_72				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 58.5 L					
Status: Eroding					
2017 Field Notes: Slump sections along mid bank. City requested PL 84-99 assistance.					
Site History: 2008 - Oversized levee, should be repaired under maintenance. 2009 - Shallow slumps at the mid bank. 2010 - Some minor erosion at the toe, likely from wave wash. Some new shallow slumps. 2011 - One new tree has fallen. 2013 - Erosion continues on the slope surface, site extended upstream.					

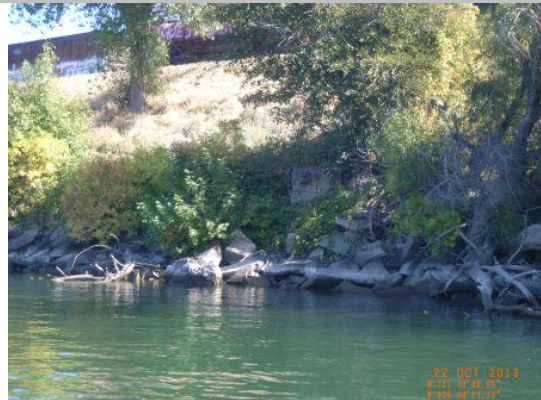
Photo 1 of 2 : FA_2018_NA0005_251_72_20181023_00116.jpg



USACE 2013 Photo #1

LM Start	1.31	Rating **	M	Issue No.	72 (cont)
LM End	1.39	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_NA0005_251_72_20181023_00117.jpg



USACE 2013 Photo #2

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Unit No. 01 Sacramento River	Left	3.67	09/21/2018 09/21/2018	Luz Dial

LM Start	2.15	Rating **	C	Issue No.	81
LM End	2.15	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.562070°	38.562070°	
			-121.515770°	-121.515770°	
DWR ID	DWR_NA0005_01_f_2017_81				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:492 Site Designation:SCDU-07 Repair Type: Erosion Rating:Serious Field Date:7/18/2017 Notes: Erosion length = 80 feet City will repair this section summer 2018. DWR Fall 2018 Inspection: LMA repaired erosion/sinkhole this Fall 2018.					

No Photos

LM Start	2.16	Rating **	C	Issue No.	86
LM End	2.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.562024°	38.562024°	
			-121.515923°	-121.515923°	
DWR ID	DWR_NA0005_01_s_2017_86				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
LMA repaired erosion this season.					

No Photos

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Unit No. 01 Sacramento River	Left	3.67	09/21/2018 09/21/2018	Luz Dial

LM Start	2.31	Rating **	A/W	Issue No.	82
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.559767°	38.559767°
				-121.515264°	-121.515264°
DWR ID	DWR_NA0005_01_s_2016_82				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
City of Sac grouted this area and will continue to monitor.					

Photo 1 of 1 : FA_2018_NA0005_251_82_20180917_00012.jpg



View of rodent hole on waterside slope. Fall 2017.

LM Start	2.45	Rating **	A/W	Issue No.	8
LM End	2.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.557937 °	38.557937 °
				-121.514237 °	-121.514237 °
DWR ID	DWR_NA0005_01_s_2012_8				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.80	Rating **	M	Issue No.	75
LM End	2.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.553114 °	38.553114 °
				-121.512566 °	-121.512566 °
DWR ID	DWR_NA0005_01_f_2018_75				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree log and limbs along levee slope.					

No Photos

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LM Start	2.89	Rating **	C	Issue No.	71
LM End	2.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.551764 °	38.551578 °
				-121.512395 °	-121.512336 °
DWR ID	DWR_NA0005_01_f_2018_71				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 56.6 L					
Status: Eroding					
2017 Field Notes: Upstream portion repaired by locals.					
Site History: 1997 - Erosion at pump station, concrete debris and plastic showing. 2000 - Separation scour of bank due to poor transition.					
2004 - New large tree pop out; city dumped fill dirt/rock into hole.					
2006 - Minor new erosion at top of bank. 2010 - Some new rock placed in tree pop-out. 2011 - A large tree has fallen and flood fighting was performed by the city on the upper levee slope. 2012 - Small rock placed in hole from tree popout.					

No Photos

LM Start	3.51	Rating **	M	Issue No.	78	
LM End	3.51	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.543211 °		38.543211 °
				-121.510168 °		-121.510168 °
DWR ID	DWR_NA0005_01_f_2018_78					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						

No Photos

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LM Start	3.55	Rating **	M	Issue No.	80
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.542698°	38.542698°	
			-121.510532°	-121.510532°	
DWR ID	DWR_NA0005_01_f_2018_80				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

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